## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference                                                  | FOR FURTHER                                                                                        |                                                               |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| A30364 WO                                                                              | 1                                                                                                  | see Form PCT/ISA/220<br>I as, where applicable, item 5 below. |
| International application No.                                                          | International filing date (day/month/year)                                                         | (Earliest) Priority Date (day/month/year)                     |
| PCT/GB2004/003824                                                                      | 08/09/2004                                                                                         | 30/09/2003                                                    |
| Applicant                                                                              |                                                                                                    | 1 30,03,20,03                                                 |
| BRITISH TELECOMMUNICATION                                                              | S PUBLIC LIMITED COMPANY                                                                           |                                                               |
| This International Search Report has been according to Article 18. A copy is being tra | n prepared by this International Searching Authansmitted to the International Bureau.              | nority and is transmitted to the applicant                    |
| This International Search Report consists                                              |                                                                                                    |                                                               |
| X It is also accompanied by                                                            | a copy of each prior art document cited in this                                                    | report.                                                       |
| 1. Basis of the report                                                                 |                                                                                                    |                                                               |
| language in which it was filed, unli                                                   | international search was carried out on the bas<br>ess otherwise indicated under this item.        | is of the international application in the                    |
|                                                                                        | search was carried out on the books of a training                                                  | tion of the international application furnished to            |
| _                                                                                      | tide and/or amino acid sequence disclosed in                                                       |                                                               |
| · ·                                                                                    | d unsearchable (See Box II).                                                                       |                                                               |
| 3. Unity of invention is lack                                                          | ing (see Box III).                                                                                 |                                                               |
| 4. With regard to the title,                                                           |                                                                                                    |                                                               |
| the text is approved as sub                                                            | mitted by the applicant.                                                                           |                                                               |
| X the text has been establish                                                          | ed by this Authority to read as follows:                                                           |                                                               |
| SUBSCRIBER'S SIDE POWER                                                                | RED TELEPHONY SYSTEM                                                                               |                                                               |
|                                                                                        |                                                                                                    |                                                               |
|                                                                                        | ••                                                                                                 |                                                               |
|                                                                                        |                                                                                                    |                                                               |
| •                                                                                      |                                                                                                    |                                                               |
| 5. With regard to the abstract,                                                        |                                                                                                    |                                                               |
| X the text is approved as subm                                                         | nitted by the applicant                                                                            |                                                               |
| the text has been established                                                          | d, according to Rule 38.2(b), by this Authority a the date of mailing of this international search | as it appears in Box No. IV. The applicant                    |
| 6. With regards to the drawings,                                                       |                                                                                                    | report, Submit comments to this Authority.                    |
|                                                                                        | lished with the abstract is Figure No. 2                                                           |                                                               |
| as suggested by the                                                                    | applicant.                                                                                         |                                                               |
| <i>i</i> —                                                                             | uthority, because the applicant failed to sugges                                                   | M = 5-                                                        |
| as selected by this A                                                                  | uthority, because this figure better characterize                                                  | st a ligure.                                                  |
| b. none of the figures is to be pr                                                     | ublished with the abstract.                                                                        | so ute invention.                                             |
| PCT/ISA/O40//S                                                                         |                                                                                                    |                                                               |

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/003824

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04M19/08

C. DOCUMENTS CONSIDERED TO BE RELEVANT

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC  $\frac{7}{100}$  H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                     | Relevant to claim No. |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X          | EP 1 009 156 A (TADIRAN TELECOMMUNICATIONS LIM) 14 June 2000 (2000-06-14) column 1, line 10 - line 38 column 2, line 14 - line 17 column 3, line 7 - line 14 column 3, line 36 - line 45 column 4, line 3 - line 17 column 4, line 46 - column 7, line 11; figures 1,2 | 1-14                  |
| X          | US 6 236 664 B1 (ERREYGERS JAN)<br>22 May 2001 (2001-05-22)                                                                                                                                                                                                            | 1,12                  |
| Α          | column 5, line 60 - column 6, line 8                                                                                                                                                                                                                                   | 2-11,13,<br>14        |

| Further documents are listed in the continuation of box C.                                                                                                                            | Patent family members are listed in annex.                                                                                                                                                                                                                                                                                                         |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| ° Special categories of cited documents :                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                    |  |  |  |
| 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date | <ul> <li>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to</li> </ul> |  |  |  |
| "L" document which may throw doubts on priority claim(s) or<br>which is cited to establish the publication date of another<br>citation or other special reason (as specified)         | involve an inventive step when the document is taken alone  "Y" document of particular relevance: the claimed, invention                                                                                                                                                                                                                           |  |  |  |
| <ul> <li>O document referring to an oral disclosure, use, exhibition or other means</li> <li>P document published prior to the international filling date but</li> </ul>              | cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art                                                                                                                                                               |  |  |  |
| later than the phonty date claimed                                                                                                                                                    | *&* document member of the same patent family                                                                                                                                                                                                                                                                                                      |  |  |  |
| Date of the actual completion of the international search                                                                                                                             | Date of mailing of the international search report                                                                                                                                                                                                                                                                                                 |  |  |  |
| 16 November 2004                                                                                                                                                                      | 24/11/2004                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2                                                                                                   | Authorized officer                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| NL - 2280 HV Rijswijk<br>Tel (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016                                                                                          | Sorrentino, A                                                                                                                                                                                                                                                                                                                                      |  |  |  |

### INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/003824

| 0.40===1==== | Non' DOCUMENTS                                                                                                                                                                                                                                                                                                                                                                                       | PC1/GB2004/003824 |                       |  |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|--|
|              | ction) DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                           |                   |                       |  |
| Category °   | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                                                                                                                                   |                   | Relevant to claim No. |  |
| 1            | WO 01/31845 A (SAMSUNG ELECTRONICS CO LTD) 3 May 2001 (2001-05-03) page 1, line 32 - page 2, line 25 page 9, line 32 - page 12, line 25 page 13, line 22 - line 23 figures 1,3,8                                                                                                                                                                                                                     |                   | 1-12                  |  |
|              | FISHER S ED — INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS: "Powering active nodes in active loops"  COMMUNICATIONS — RISING TO THE HEIGHTS.  DENVER, JUNE 23 — 26, 1991, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, NEW YORK, IEEE, US, vol. Vol. 1, 23 June 1991 (1991–06–23), pages 929–935, XP010044027  ISBN: 0-7803-0006-8  cited in the application paragraph '04.4! |                   | 1-12                  |  |
|              | WO 01/22716 A (ERICSSON TELEFON AB L M) 29 March 2001 (2001-03-29) page 4, line 26 - page 6, line 23                                                                                                                                                                                                                                                                                                 |                   | 1-12                  |  |
|              | ·                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                       |  |
| 3            |                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                       |  |
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#### INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No PCT/GB2004/003824

|        |                        |     | 1017 4520047 003024 |                                        |                                                                           |                         |                                                                                                |
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|        | ocument<br>arch report |     | Publication date    |                                        | Patent family member(s)                                                   |                         | Publication 1 date                                                                             |
| EP 100 | 9156                   | Α   | 14-06-2000          | EP                                     | 1009156                                                                   | A2                      | 14-06-2000                                                                                     |
| US 623 | 6664                   | B1  | 22-05-2001          | NONE                                   |                                                                           |                         |                                                                                                |
| WO 013 | 1845                   | Α . | 03-05-2001          | KR<br>CN<br>EP<br>WO                   | 2001038745<br>1140975<br>1142198<br>Q131845                               | C<br>A1                 | 15-05-2001<br>03-03-2004<br>10-10-2001<br>03-05-2001                                           |
| WO 012 | 2716                   | A   | 29-03-2001          | AU<br>BR<br>CN<br>EP<br>WO<br>SE<br>US | 7820300<br>0014245<br>1376358<br>1216572<br>0122716<br>9903476<br>6577882 | A<br>T<br>A1<br>A1<br>A | 24-04-2001<br>21-05-2002<br>23-10-2002<br>26-06-2002<br>29-03-2001<br>25-03-2001<br>10-06-2003 |